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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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05/24/2010

CONLEY ROSE, P.C. 5601 GRANITE PARKWAY, SUITE 750 PLANO, TX 75024 EXAMINER

BEYEN, ZEWDU A

ART UNIT PAPER NUMBER

2461

DATE MAILED: 05/24/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584.212	02/27/2007	Li Yuan	4202-02400	9710

TITLE OF INVENTION: METHOD AND SYSTEM FOR IMPLEMENTING TRAVERSAL THROUGH NETWORK ADDRESS TRANSLATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/24/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1510	\$300	<b>\$</b> 0		\$1810	08/24/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
BEYEN, Z	ZEWDU A	2461	370-389000				
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> <li>ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON</li> </ol>			or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be	of up to 3 registered patent attorneys alternatively, of a single firm (having as a member a prney or agent) and the names of up to atent attorneys or agents. If no name is e will be printed.			
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CONLEY ROSE	E, P.C.	BEYEN, ZEWDU A			
	ARKWAY, SUITE 75	ART UNIT	PAPER NUMBER		
PLANO, TX 7502	4		2461		
			DATE MAILED: 05/24/2010		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 311 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 311 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/584,212	YUAN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	ZEWDU BEYEN	2461	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due cou	rse. <b>THIS</b>
1. This communication is responsive to <u>02/22/2010</u> .			
2. X The allowed claim(s) is/are 13-23, and renumbered as 1-1	<u>'1</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>	e been received.	• •	
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		
3. Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give		r declaration is deficient.	
5. CORRECTED DRAWINGS ( as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers		w ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•		
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			e the
Attachment(s)	5 🗆 Nieties of Ir	Samuel Detect Application	
1. Notice of References Cited (PTO-892)	<u> </u>	nformal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No.	ummary (PTO-413), /Mail Date	
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's	Amendment/Comment	
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☐ Examiner's	Statement of Reasons for Allowar	nce
· <del></del>	9. ⊠ Other <u>Rep</u> i	acement sheet filled on 05/19/2010	<u>0</u> .
/ZEWDU BEYEN/			
Examiner, Art Unit 2461			

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Grant Rodolph on 05/19/2010.

## Amendments to the Claims:

Claims 13, and 18 have been amended as follows:

13. (Currently Amended) A method for implementing traversal through a Network Address Translation (NAT) server or a firewall (FW) located in a first network, the method comprising:

recording a first address and port in an IP header of a signaling message of a call received from the NAT server or FW located in the first network;

modifying the first address and port into a second address and port assigned by the proxy server for the call in the second network;

analyzing the information in the signaling message;

recording an address and port of a call signaling in a load-payload of the signaling message; and

Recording an address and port of Real-time Transfer Protocol (RTP) and Real-time Transfer Control Protocol (RTCP) of a media stream in the signaling message;

modifying the address and port of the call signaling into the address and port of the call signaling of the second network assigned by the proxy server for the call;

modifying the address and port of RTP and RTCP into the address and port of the second network assigned by the proxy server for the media stream;

delivering the signaling message to a processing device of packet voice signaling or a service processing device in the second network;

modifying a third address and port in the IP header of a response signaling message from the processing device of packet voice signaling or the service processing device into the first address and port;

analyzing the information in the response signaling message;

modifying an address and port of a response signaling in a load payload of the response signaling message into the recorded address and port of the call signaling in the load payload of the signaling message;

modifying a RTP and RTCP address and port of a media stream in the response signaling message into the recorded RTP and RTCP address and port of the media stream in the signaling message; and

sending the response signaling message to the NAT server or FW in the first network,

wherein the method is implemented in the proxy server located in the second network outside the NAT server or the FW.

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18. (Currently Amended) A system for implementing traversal through a Network Address Translation (NAT) server or a firewall (FW) located in a first network, comprising:

a packet user terminal located in the first network, for initiating and receiving services;

the NAT server or FW, for providing services of accessing a second network for the packet user terminal and forwarding messages from and to the packet user terminal;

a proxy server located in the second network outside the NAT server or FW, the proxy server being configured for:

receiving a signaling message of a call from the NAT server or FW;

recording a first address and port in an IP header of the signaling message;

modifying the first address and port into a second address and port assigned by the proxy server for the call in the second network;

analyzing the information in the signaling message, recording an address and port of a call signaling in a load payload of the signaling message as well as an address and port of a media stream thereof;

modifying the address and port of the call signaling into the address and port in the second network assigned by the proxy server for the call, and modifying the address and port of the media steam into the address and port of the second network assigned by the proxy sever for the media stream; and

receiving a response signaling message sent to the packet user terminal;

modifying a third address and port in the IP header of the response signaling message into the first address and port;

analyzing the information in the response signaling message;

modifying an address and port of a response signaling in a <u>load payload</u> of in the response signaling message into the recorded address and port of the call signaling;

modifying an address and port of a media stream in the response signaling message into the recorded address and port of the media stream; and

delivering the response signaling message to the NAT server or FW; and

a soft-switching device, for providing integrated services and call control, forwarding to the proxy server the response signaling message sent to the packet user terminal when the response signaling message is received.

#### Allowable Subject Matter

Claims 13-23 are allowed.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ZEWDU BEYEN whose telephone number is (571)270-7157. The examiner can normally be reached on 9:00am-6:00pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Z. B./

Examiner, Art Unit 2461

/Huy D Vu/

Supervisory Patent Examiner, Art Unit 2461